

AMENDMENTS TO THE CLAIMS

Please replace the claims, including all prior versions, with the listing of claims below.

LISTING OF CLAIMS:

1. (Currently amended) A Datadata traffic separation method for use in a packet-oriented mobile radio network ~~(GPRS)~~, comprising:

~~separating in which~~ data traffic arising in an access node ~~(GGSN)~~ of the mobile radio network ~~(GPRS)~~ and consisting of, the data traffic including a plurality of layer 2 connections ~~(PDP contexts)~~ comprising a plurality of data flows in each case, ~~is separated~~ with respect to connection-specific and/or data flow-specific handling; and

~~is optionally routed~~ routing the data traffic proportionately via a processing unit ~~(IP flow handler)~~ performing such handling.

2. (Currently amended) ~~Method~~ The method in accordance with claim 1, ~~characterized in that, wherein~~
a control function ~~(S)~~ within the access node ~~(GGSN)~~ decides, based on the basis of the application-specific information and/or the local information of an information unit ~~(internal policy)~~ integrated in an access node ~~(GGSN)~~ whether ~~or not~~ a layer 2 connection ~~(PDP context)~~ is to be routed via the processing unit ~~(IP flow handler)~~ where, based on the basis of the application-specific information and/or the local information, connection-specific and/or data flow-specific handling is carried out in each case.

3. (Currently amended) ~~Method~~ The method in accordance with claim 2, ~~characterized in that, wherein~~
when a communication to an application ~~(A)~~ is set up by a subscriber, the application ~~(A)~~ of a policy decision function ~~(PDF)~~ transmits the application-specific information and the policy decision function ~~(PDF)~~ via an interface ~~(2))~~ authorizes the access node ~~(GGSN)~~ of the mobile radio

network (GPRS) to set up one layer 2 connection or a plurality of layer 2 connections (~~PDP contexts~~) comprising a plurality of data flows in each case for the requested application (~~A~~) and transmits the application-specific information.

4. (Currently amended) ~~Method~~ The method in accordance with claim 2, ~~characterized in that, wherein~~
the application-specific information is routed via an authentication, authorization and accounting server (~~AAA server~~), in particular via a remote access dial-in user-server (~~RADIUS~~) to the access node (~~GGSN~~).

5. (Currently amended) ~~Method~~ The method in accordance with claim 2, ~~3 or 4, characterized in that, wherein~~
the application-specific information with respect to connection-specific handling of the layer 2 connection (~~PDP context~~) is routed to the access node (~~GGSN~~) and the application-specific information with respect to data flow-specific handling of data flows within the layer 2 connection (~~PDP context~~) directly to the processing unit (~~IP flow handler~~).

6. (Currently amended) ~~Method~~ The method in accordance with claim 2, ~~3 or 4, characterized in that wherein~~
the application-specific information with respect to data flow-specific handling of data flows within a layer 2 connection (~~PDP context~~) is routed indirectly via the access node (~~GGSN~~) to the processing unit (~~IP flow handler~~).

7. (Currently amended) ~~Method~~ The method in accordance with ~~one of the preceding claims, characterized in that claim 1, wherein~~
the processing unit (~~IP flow handler~~) is integrated into the access node (~~GGSN~~) of the mobile radio network (~~GPRS~~).

8. (Currently amended) ~~Method~~ The method in accordance with ~~one of the preceding claims, characterized in that claim 1, wherein~~
a GPRS network is used as the mobile radio network.

9. (Currently amended) ~~Method~~ The method in accordance with ~~one of the claims 2 to 8,~~
~~characterized in that claim 2, wherein~~
the billing information is transmitted as the application-specific information.

10. (Currently amended) ~~Method~~ The method in accordance with ~~one of the claims 2 to 9,~~
~~characterized in that claim 2, wherein~~
QoS (Quality of Service) information is transmitted as the application-specific information.

11. (Currently amended) ~~Method~~ The method in accordance with ~~one of the preceding claims,~~
~~characterized in that claim 1, wherein~~
the processing unit (~~IP flow handler~~), in the case of a layer 2 connection (~~PDP context~~) routed
thereto-it, carries out a data flow-specific separation or filtering and handling.

12. (Currently amended) ~~Mobile~~ A mobile radio network, comprising: ~~which has at least the~~
~~following units~~
[[-]] an access node (~~GGSN~~) with a control function (~~S~~) for separating data traffic arising in an
access node (~~GGSN~~) ~~consisting of~~ including a plurality of layer 2 connections (~~PDP contexts~~)
comprising a plurality of data flows in each case in accordance with ~~the predetermined information;~~
and
[[-]] a processing unit (~~IP flow handler~~) for handling data flows separated by the control function
(~~S~~) and layer 2 connections (~~PDP contexts~~) comprising a plurality of data flows in each case
forwarded to the processing unit (~~IP flow handler~~).

13. (Currently amended) ~~Mobile~~ The mobile radio network in accordance with claim 12,
~~characterized in that, wherein~~
the mobile radio network has a policy decision function (~~PDF~~) for receiving, evaluating and ~~the~~
immediate forwarding of the application-specific information to the control function (~~S~~) of the
access node (~~GGSN~~).

14. (Currently amended) ~~Mobile~~ The mobile radio network in accordance with claim 12 ~~or 13,~~
~~characterized in that, wherein~~

the processing unit (~~IP flow handler~~) comprises a filter function, which in incoming layer 2 connections (~~PDP contexts~~), can separate data flows in accordance with the data flow-specific information so that these data flows can be subject to data flow-specific handling in the processing unit (~~IP flow handler~~).